



Application Number: 09/331,008

Title: Electronic zoom image input method

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Art Unit: 2615

Claims Sheet 1/2

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Claims 1-6 (canceled)

Claim 7 (currently amended); An electronic zoom image input method that enables zooming without degrading the resolution, by including comprising the a fixed focus input image compressing optical system to form a compressed zoom input image having a function of compressing the input image more largely as it moves to the circumferential part, the an image input device sensor to receive the compressed zoom input image with reduced input image plane area providing preferably uniform pixel density, and a conversion unit for the processing of the zoom image converting and correcting system of the compressed zoom input image to reproduce zoom output images.

Claim 8 (currently amended); An electronic zoom image input method that enables zooming without degrading the resolution, by including comprising the a fixed focus input image compressing optical system to form a compressed zoom input image having a function of compressing the circumferential part of the input image in logarithmic function, an image sensor to receive the compressed zoom input image with reduced input image plane area, and a conversion unit for the processing of the zoom image converting and correcting system of the compressed zoom input image to reproduce zoom output images.

Claim 9 (currently amended); An electronic zoom image input method claimed in claim 7, that has the a fixed focus input image compressing optical system where the compression of the circumferential part of the input image is limited to the vertical and horizontal direction.

Claim 10 (currently amended); An electronic zoom image input method claimed in claim 7, that has a an image input device sensor with a rectangular input image plane, and an a fixed focus input image compressing optical system with the a function of compressing the circumferential part of the input image to all direction, and compressing further the neighboring part of the vertical and horizontal axes of the input image.

Claim 11 (currently amended) ; An electronic zoom image input method claimed in Claim 7, or claim 8, or claim 9, or claim 10, where ~~the a fixed focus input image compressing optical system that compresses the circumferential part of the input image is included comprised as the an attachment optical system.~~

Claim 12 (currently amended) ; An electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10, that ~~is capable to change the has a different zooming range, having attachment conversion lenses to change the focal length of the image input optical system by mounting a fixed focus attachment conversion lens to the fixed focus input image compressing optical system to change its total focal length.~~

Claim 13 (currently amended) ; A 3D electronic zoom image input method whose right and left image input optical systems are organized by fixed focus input image compressing optical systems of the electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10.